United States Coast Guard

ALTERNATE COMPLIANCE PROGRAM
TANKSHIP (OIL)
EXAMINATION BOOK

Name of Vessel	
Official Number	**ACP Class Society**
Date Completed	**Location**
Vessel Built in Compliance with SOLAS: 60 74 74/78 N/A	
Exam Type Annual Reexamination	
Inspectors **1.** _____ **3.** _____ **2.** _____ **4.** _____	

CG-840 ACP TS(Oil)
Rev. 1/99

Notes:

Use of ACP Tankship (Oil) Examination Book:

This examination book is intended to be used as a job aid by Coast Guard marine inspectors during annual examinations and reexaminations of U.S. flagged vessels participating in the Alternate Compliance Program (ACP). This book contains an extensive list of possible examination items. It is not, however, the Coast Guard's intention to "inspect" all items listed. The marine inspector must verify that the vessel and its crew are in substantial compliance with international conventions and the requirements of the ACP class society's U.S. Supplement. The depth and scope of the examination must be determined by the marine inspector's observation of the vessel, its equipment, and its crew.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFR's, the ACP class society's U.S. Supplement, NVIC's, or any locally produced cite guides for specific regulatory references. Although not all items in this book are applicable to all vessels, Section 1 should be filled out in its entirety at each examination and reexamination.

NOTE: *Guidance on how to examine ACP vessels can be found in MSM Volume II, Chapter 32: Alternate Compliance Program, and NVIC 2-95, Change 1. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.*

Guide to Examinations:

☐ Annual examination and reexamination

◇ Annual examination only

○ Expanded examination as required

These three stages are only a general guide. Each marine inspector should determine the depth of the examination necessary. A checked box should be a running record of what has been examined by the marine inspector. It does not imply that the entire system has been examined or that all or any items are in full compliance.

NOTE: *A reexamination normally includes an examination of the vessel's documents, certificates, and licenses, in addition to a "walk-through" of the vessel.*

Notes:

Table of Contents:

Recommended ACP Vessel Deficiency Procedures:

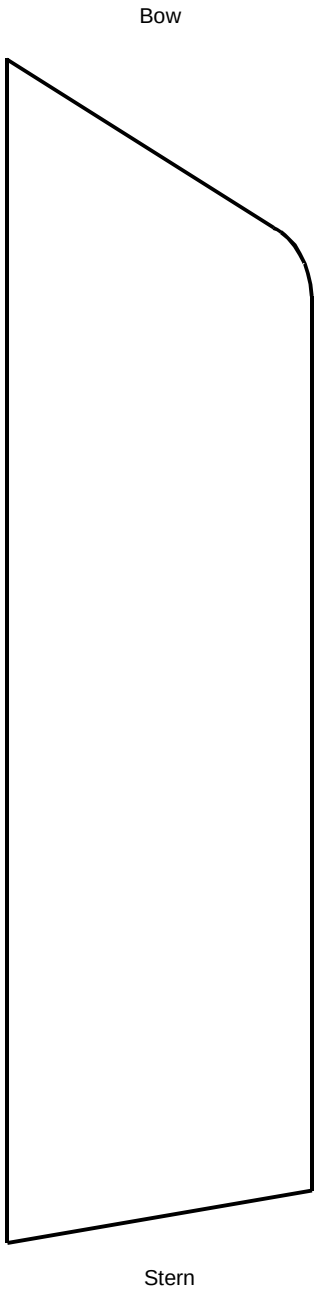
Step	Action
1	Identify deficiency.
2	Inform vessel representative.
3	Record on the *Deficiency Summary Worksheet* (next page).
4	If deficiency is corrected prior to end of exam, go to Step 7.
5	If deficiency is unable to be corrected prior to end of exam, follow guidance in the tables below. TABLE 1: Minor deficiency discovered by Coast Guard marine inspector* **Step** / **Action** 1 — Notify ACP class surveyor-in-charge. 2 — If ACP class surveyor issues an OSR, go to Step 7. 3 — If ACP class surveyor is not available, issue CG-835 to vessel with copy sent to ACP class surveyor-in-charge. Go to Step 6. TABLE 2: Major deficiency that poses a direct and immediate threat to vessel's crew, safety of navigation, or marine environment* **Step** / **Action** 1 — Notify ACP class surveyor-in-charge of deficiency. 2 — Ascertain proposed corrective action. 3 — Detain vessel if so determined by OCMI under SOLAS I/19 or MARPOL Article 5. * ***NOTE:*** *Deficiencies shall indicate the item must be completed to the satisfaction of either the OCMI or ACP class society. The OCMI may deny or revoke the COI for noncompliance with the terms and/or conditions of the deficiencies.*
6	Enter CG-835 data in MIDR.
7	Enter deficiency data in MSDS.
8	Initiate Report of Violation (ROV) if necessary.

Involved Parties & General Information:

Vessel's Representatives _____ _____
Phone Numbers

Owner—Listed on DOC or COFR
No Change

Operator
No Change



Call Sign	No Change (VFID)
Gross Tons	No Change (VFMD)
Built Date (use delivery date)	No Change (VFCD)
Overall Length (in feet)	No Change (VFMD)

Vessel Description:

Crude Carrier	Oil / Bulk / Ore
Product Carrier	Other
Combination	_____

Ventilation:

○ Proper machinery for cargo carried 46 CFR 32.55-20

IF vessel carries:	THEN it must have:
Grades A-E liquid cargoes	• P/V valves • Flame screens • Corrosion-free properties • Proper valve material • Proper vent header height above deck • Proper vent header distance from nearest living / work spaces, ventilation inlet, or source of ignition
Grades B - E liquid cargoes	• Cargo tanks fitted with individual P/V valves or vent header
Grades D - E liquid cargoes	• Goosenecks • Flame screens

Notes: _____

Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date	Endors. Date
International Load Line (ILL) No Change						
International Oil Pollution Prevention w/Form B (IOPP) No Change						
International Tonnage (ITC) No Change						
Safety Management (SMC) No Change						
Document of Compliance (DOC) No Change						

Inert Gas Systems (IGS):

NOTE: *Requirements and guidance on inert gas systems is detailed in 46 CFR 32.53, SOLAS 74/78 II-2/62, and MSM Volume II, Chapter 15.*

○ Type of system installed

Flue gas

Gas generator

Nitrogen bottles

○ Sampling / testing of gas pad

Tank Number	% Oxygen	OR	% Nitrogen
Vessel is gas-free or not carrying cargoes required to be inerted			

○ Proper operation of IGS components

- Blowers
  - Free from excessive bearing noise and vibration
  - Remote shutdown for IGS blower
- Scrubber room ventilation
- Primary and alternate saltwater scrubber pumps
- Deck seal
  - Water level
  - Automatic filling
  - Open drain cocks on IG main
- Remote operated / automatic control valves
  - Open or closed indicator
- Gauges
  - Calibration of inline O_2 analyzing equipment
  - Check O_2 and pressure level recordings
- Portable instruments calibrated
- IG generator
  - Combustion control system and fuel supply
  - Interlocking of soot blowers (IGS automatically shuts down when soot blowers engaged)

Notes: _____

Pollution Prevention Records:

☐ Current pollution prevention records

- Person-in-charge — 33 CFR 155.700
- Transfer equipment tests and inspections — 33 CFR 156.170
- Declaration of Inspection — 33 CFR 156.150

☐ Proper endorsements for cargo carried

IF vessel carries:	THEN it must have:	
NLS cargo	• An endorsement on TVE, AND • A list of authorized cargoes on TVE	MARPOL Ax. II NVIC 5-87
Category D cargo	• An NLS certificate, OR • An endorsement on TVE	33 CFR 157.35(c)
Category C oil-like cargo	• An attachment to IOPP certificate, OR • An endorsement on TVE	33 CFR 157.33
Category D oil-like cargo	• An attachment to IOPP certificate, OR • An NLS certificate, OR • An endorsement on TVE	33 CFR 157.35(d)

☐ Crude oil washing system

- Required documents — 33 CFR 157.118
- Waiver — 33 CFR 157.120

☐ Dedicated clean ballast tanks

- Plans and documents — 33 CFR 157.202
- Operations manual — 33 CFR 157.208
- Required documents — 33 CFR 157.216

☐ IOPP certificate items — 33 CFR 157.15

- Number of slop tanks _____
- Total capacity of slop tanks_____
- Oily residue tank — 33 CFR 157.17

Notes: _____

- ○ Human Factors — STCW Table A-III
  - Oil and oily mixtures — MARPOL Ax. I
    - Responsible officer familiar with handling of sludge and bilge water
    - Quantity of residues generated
    - Capacity of holding tanks
    - Capacity of oil water separator
    - Note any inadequacies in reception facilities used; advise master to report these to flag state
  - Garbage — MARPOL Ax. V
    - Note any inadequacies in reception facilities used; advise master to report these to flag state
    - Crew familiar with Annex V requirements

Machinery Spaces:

- ○ Test communication between navigating bridge and machinery space — SOLAS 74/78 II-1/37
  - Two means, one of which must be an engine order telegraph
- ○ Emergency source of electrical power — SOLAS 74/78 II-1/43, SOLAS 74/78 II-1/44
  - Location
  - Generator and/or batteries tested under load
  - Emergency lighting
- ○ Main engine / vital auxiliaries (spot-check) — SOLAS 74/78 II-1/27
  - F/O pumps / piping
  - S/W pumps / piping
  - J/W pumps / piping
  - L/O pumps / piping
  - Piston cooling pumps / piping
  - Air compressors / receivers
  - Fuel / oil purifiers
  - H/O heaters / transfer pump

Notes: _____

Section 3: General Examination Items

Navigation Safety:

- ☐ Charts and publications for US waters/ intended voyage — 33 CFR 164.33
  - Current and corrected charts
  - US Coast Pilot
  - Sailing directions
  - Coast Guard Light List
  - Tide tables
  - Tidal current tables
  - International Rules of the Road
  - Inland Rules of the Road
  - International Code of Signals
  - Plotting equipment — 33 CFR 164.35
- ☐ Radar(s) and ARPA — 33 CFR 164.35, 33 CFR 164.37, 33 CFR 164.38
  - 2 required if over 10,000 GT
  - Operate independently
  - ARPA acquires targets
- ☐ Compasses — 33 CFR 164.35
  - Illuminated gyrocompass with repeater at stand
  - Illuminated magnetic compass
  - Current deviation table
- ☐ Test electronic depth sounding device and recorder — 33 CFR 164.35
  - Accurate readout
  - Test all transducers
  - Continuous recorder (chart)
- ☐ Electronic position fixing device — 33 CFR 164.41
  - Location accurate

Notes: _____

- ○ Emergency communication equipment
  - 2-way VHF radiotelephone apparatus — SOLAS 74/78 III/6.2
  - Radar transponders
  - Survival craft EPIRBs
  - Onboard communication and alarm system — SOLAS 74/78 III/6.4
- ○ Line-throwing appliance — SOLAS 74/78 III/17.49
  - Specifications and equipment
- ○ Pilot ladders and hoists in good condition — SOLAS 74/78 V/17
- ○ Distress signals — SOLAS 74/78 III/6.3
  - 12 red rocket parachute flares

Fire Protection:

- ○ Structural fire protection — SOLAS 74/78 II-2/42, 43, 44, 46, 47, 49, & 50
  - Bulkheads and decks meet applicable fire integrity requirements
  - Openings (e.g., doors, ductwork, electrical wires, piping, etc.) constructed so that they do not destroy fire resistance of bulkheads
  - Manual and automatic fire doors examined / tested
- ○ Fire detection, fire alarm, and automatic sprinkler systems fitted where required and operating properly — SOLAS 74/78 II-2/52
- ○ Ventilation systems — SOLAS 74/78 II-2/48
  - Main inlets and outlets of all ventilation spaces can be closed from outside ventilated space
  - Power ventilation capable of being shutdown from outside ventilated space
- ○ Fire pumps — SOLAS 74/78 II-2/4
  - Fire main activated; water pressure satisfactory (energize forward-most and highest hydrants)

Notes: _____

- ◇ 9 GHz radar transponder (SART) — SOLAS 74/78 III/6.2, NVIC 9-93
  - Vessels > 300 GT and < 500 require 1
  - Vessels > 500 GT require 2
  - Stowed so to be rapidly placed in survival craft, or stowed in survival craft
- ◇ NAVTEX — SOLAS 74/78 IV/7.1.4
- ◇ Radio installation — SOLAS 74/78 IV/6.2
  - Marked with call sign

General Health and Safety

- ☐ Accident Prevention and Occupational Health
  - Rails, guards, protective clothing and equipment, warning signs posted in crew work areas
- ☐ Crew accommodations — 46 CFR 32.40, MSM Ch. 13.C
  - Habitable conditions
  - Adequate lighting and ventilation
  - Free of cargo and stores
  - Individual berths
- ☐ Hospital space — 46 CFR 32.40, MSM Ch. 13.C
  - Designated for ships ≥ 500 GT with 15 or more crew on voyage of more than 3 days
  - Not used for stowage or berthing
  - Properly operating toilet
- ☐ Galley — MSM Ch. 6.P.8, MSM Ch. 13.C
  - Sanitary conditions
  - Adequately equipped to prepare food
  - Mess hall provided for crew
- ☐ Muster lists and emergency instructions
  - Available for each person — SOLAS 74/78 III/8
  - Posted in conspicuous places
  - Shows crew member duties — SOLAS 74/78 III/53

Notes: _____

○ Audits

- Internal audits conducted as specified by SMS
  NOTE: *Do NOT examine internal audit records.*
- External audit results reviewed
  - Status of open non-conformities relevant to deficiencies leading to detention
  - Status of implementation of corrective and preventative measure

○ SMS review conducted by Master in accordance with procedures in SMS

- Non-conformities identified
- Report of non-conformity prepared and sent in accordance with procedures established by SMS

Navigation Safety:

○ Test navigation equipment listed in Section 3 to the extent necessary to determine if equipment is operating properly.

○ Human Factors (spot-check): determine if deck officers are familiar with the following items:

STCW Table A-II
NVIC 3-98

- Operation of bridge control and navigational equipment
- Use of nautical publications and charts
- Ship maneuvering characteristics
- Lifesaving signals
- Bridge procedures, instructions, manuals, etc.
- Changing steering from automatic to manual and vice versa
- Preparations for arrival and departure
- Communications with engineroom
- Use of VHF
- Raising the alarm
- Abandon ship drill and fire drill

Notes: _____

◇ Anchor and windlass (spot-check)

- Foundations
- Drive units
- Guards
- Covers for moving parts
- Brake pads
- Deck fittings
- Electrical (wiring) or hydraulic piping

◇ Mooring winches / capstans

- Foundations
- Cables / hooks
- Boom
- Brake
- Electrical (wiring) or hydraulic piping
- Ladders / rails

Cargo Operations:

☐ Pumprooms

NOTE: *If pumproom is not gas-free, issue requirement to make it available at next U.S. port.*

MSM Vol. I Ch.10
Appendix A
MSM Vol. II Ch. 5.I

- Marine Chemist Certificate
  - Chemist No. _____
  - Certificate No. _____
  - Date issued _____
- Ventilation
- Electrical installation — SOLAS 74/78 II-2/59.3
- Fire extinguishing system
- Potential sources of ignition (gear adrift, product in bilges, rags, paint, cleaning solvents, vapors, etc.) — SOLAS 74/78 II-2/63

☐ External examination of inert gas system

46 CFR 32.53
MSM Vol. II Ch. 15

- Piping and components
- Scrubber
- Fans
- Valves
- Expansion joints
- Free of corrosion or leakage

Notes: _____

Section 5: Expanded Examination Items

Manuals and Instructions:

- ○ Check for presence of the following documents
  - Instructions for maintenance and operation of all installations / equipment for fighting and containing a fire — SOLAS 74/78 II-2/20
  - Training manual for lifesaving appliances — SOLAS 74/78 III/18.2, SOLAS 74/78 III/51
  - Instructions for onboard maintenance of lifesaving appliances — SOLAS 74/78 III/19.3, SOLAS 74/78 III/52
  - Stability booklet, associated stability plans and information — SOLAS 74/78 II-1/22, ICLL 66 Reg. 10
- ○ Cargo gear certificate
- ○ Grain loading manual — SOLAS 74/78 VI/9.1
  - Bulk vessel (stability and grain manuals often combined)
- ○ Human Factors — STCW Code
  - Determine if the appropriate crew members are able to understand the information given in manuals, instructions, etc., relevant to the safe condition of the ship and its equipment, and that they are aware of the requirements for maintenance, periodical testing, training, drills, and recording of logbook entries.

Safety Management System (SMS):

NOTE: *Requirements and guidance for inspecting vessel Safety Management Systems are detailed in SOLAS 74/78, Chapter IX and NVIC 4-98.*

- ○ Documentation (may be in the form of a Safety Management Manual)
  - Controlled documents
  - Quality policy
  - Master of vessel familiar with SMS
  - Language understood by crew
  - Documentation identifies:
    - Written procedures kept on board vessel
    - Essential or critical equipment identified (or a separate manual containing this information)
    - Procedures for reporting non-conformities
    - Company's designated person(s) (name or title, and address)

Notes: _____

- ☐ Davit system — SOLAS 74/78 III/19.2, SOLAS 74/78 III/48
  - Structure and foundation
  - Roller tracks
  - Lubrication (evidence of use)
  - Falls; end for end / renew (2.5 / 5 years)
  - No obstructions to lowering
- ☐ Embarkation area — SOLAS 74/78 III/11.7
  - No obstructions
  - Embarkation ladder
  - Launching instructions — SOLAS 74/78 III/9
  - Emergency lighting
- ☐ Liferafts — SOLAS 74/78 III/19
  - Required number — SOLAS 74/78 III/26
  - Stowage — SOLAS 74/78 III/29
  - Float-free arrangement
    - Hydrostatic release / weak link
  - Annual servicing (hydrostatic release and inflatable liferaft) — SOLAS 74/78 III/19.8.1, SOLAS 74/78 III/19.9.1
    - Maximum 17 months
  - Launching instructions posted — SOLAS 74/78 III/9
  - Bow / stern station
    - Lashed down on deck or in marked location
    - Lifejackets available
- ☐ Lifebuoys (spot-check)
  - Condition — SOLAS 74/78 III/19.2
  - Bridge location — SOLAS 74/78 III/7.1
    - Quick release system
    - Smoke and light float
  - Deck location
    - 50% with waterlights
  - Retro-reflective tape — SOLAS 74/78 III/30.2.7
- ☐ Lifejackets—watchstanders and crew (spot-check)
  - Condition — SOLAS 74/78 III/19.2
  - Stowage — SOLAS 74/78 III/7.2.2
  - Retro-reflective material — SOLAS 74/78 III/30.2.7
  - Lights — SOLAS 74/78 III/27.2
  - Whistles — SOLAS 74/78 III/32.1.6

Notes: _____

Section 4: Drills

◇ Fire Drill:

Initial notifications	Familiarity with duties	Space isolation
General alarms / signals	Familiarity with equipment	Smoke control
Crew response	Fire pumps started	Communications w/ bridge
Properly dressed / equipped	Two jets of water	
Language understood by crew	Fire doors and dampers	

(SOLAS 74/78 III/18.3; MSM Vol. II/22.C.7.i; NVIC 6-91)

Location: _____ Time on Scene: _____

Notes: _____

◇ Test operation of fire main system

- Required number of fire pumps — SOLAS 74/78 II-2/3
- Location of pumps — SOLAS 74/78 II-2/4
- Pumps, hydrants, piping, hoses, and nozzles in good condition and available for immediate use — SOLAS 74/78 II-2/21

◇ Structural fire protection (spot-check) — SOLAS 74/78 II-2/42

- Bulkheads
- Insulation
- Ventilation
- Penetrations

◇ Fixed fire extinguishing systems: cargo, machinery, and other spaces — SOLAS 74/78 II-2/21

- Tanks, cylinders, piping, controls, alarms, and release mechanisms in good condition and available for immediate use

Type of system: (circle appropriate type)			
Low Pressure CO_2	High Pressure CO_2	Halon	Foam

Pollution Prevention: (spot-check at reexaminations)

☐ Pollution placard posted — 33 CFR 155.450

☐ MARPOL V placard posted — 33 CFR 151.59; MARPOL Ax. V/9

☐ Garbage

- Shipboard garbage properly disposed — MARPOL Ax. V/3
- Incinerator — 33 CFR 151.63
  - Evidence of use (clinkers)
  - Safety of burner assembly
  - Electrical controls
- Garbage Management Plan — MARPOL Ax. V/9

Notes: _____